BRUHATH BANGALORE MAHANAGARA PALIKE

me of work: Improvements of roads and drains in Padma Tent Area in ward No. 07-atarayanapura, Kodigehalli Sub Division.

	Description of work	No.	Dimensions			Qty	Rate	Unit	Amount
			L	B	D				
	2	3	4	5	6	7	8	9	10
	DRAIN								
	KSRB 2-2.2:Earth work excavation for foundation of building, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **ORDINARY soil** not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches , stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications and direction of the Engineer-in-charge. Specification. No.KBS 2.1(b)/2.3.5. (P-5, It. No.2.1)								
	Basic rate		77.00						
	Add A.W. 8%		6.16						
	Total		83.16						
	over burden earth	1	20.00	1.50	0.60	18.00			
	Amruthalli colony road	1	363.00	0.90	0.85	277.70			
	CC Drain	1	35.00	0.60	0.30	6.30			
	CC Road	1	20.00	5.00	0.30	30.00			
	Culvert	1	5.00	1.80	0.90	8.10			
					Total:-	**340.10**	83.16	Cum	28283.00
2	KSRB **4-1.3:** Providing and laying in position plain cement concrete of nominal mix 1:4:8 using **40mm** and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . (Pg.No.12, It.4.3)								
	Basic rate		4695.00						
	Add A.W. 8%		375.60						
	Total		5070.60						
	Amruthalli colony road	1	363.00	0.9	0.10	32.67			
	CC Drain	1	35	0.6	0.10	2.10			
	CC Road	1	20	5	0.10	10.00			
	Culvert	1	5	1.8	0.10	0.90			
						45.67	5070.60	Cum	**231574.302**

3	**KSRB4-1.6:** Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.69 cum and fine aggragtes @ 0.459cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 12. Item No. 4.6)								
	Basic rate		5084.00						
	Add A.W. 8%		406.72						
	Total		5490.72						
	Culvert	1	5	1.8	0.10	0.90			
						0.90	5490.72	Cum	4942.00
4	**KSRB 4.2.2:** Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. **Seocifications No. KBS 4.1,4.6 (Page NO. 13, Item NO. 4.11)+**								
	Basic rate		5739.00						
	Add A.W. 8%		459.12						
	Total		6198.12						
	CC Drain Bottom								
	Amruthalli colony road Main road Drain	1	363.00	0.60	0.10	21.78			
	CC Drain	1	35.00	0.60	0.10	2.10			
	CC DRAIN SIDEWALL								
	Amruthalli colony road	2	363	0.60	0.15	65.34			
	CC Drain	2	35.00	0.6	0.15	6.30			
						73.74	6198.12	Cum	457050.00

5	**KSRB 4-.9-2:**Providing and fabricating TMT . Steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking,placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design(laps and wasteage shall not measured and paid) cost of materials. labour. HOM of machinery complete as per specifications . (Page NO 17, Itm. NO. 4.46.2)								
	Basic rate		59327.91		54933.24				
	Add A.W. 8%		0.00		4394.66				
	Total		59327.91		59327.91				
	Qty @ 60Kg/cum	drain	0.065	X	~~73.74~~	4.79			
					Total:-	**4.79**	59327.91	tonne	284365.00
6	**KSRB 4-6.4:** Providing and removing centering, shuttering strutting, propping etc., and removal of form work for **vertical surface** such as walls at any thickness including attached pilasters, buttressed, plinth and string courses cost of all materials, labour complete as per specifications (Page no.14, Item No. 4.31)								
	Basic Rate		**284.00**						
	Area Weightage 8%		22.72						
	total		**306.72**						
	Amruthalli colony road	4	363		0.60	871.20			
	Maramma temple street CC Drain	4	35.00		0.60	84.00			
						955.20	306.72	Sqm	292978.94
7	**KSRB 4-48:** Providing and laying in cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complate (exclusive of cost of steel and fabrication charges) **(Pg No. 18, It No. 4.48)**								
	Basic rate		5863.00						
	Add A.W. 8%		469.04						
	Total		6332.04						
	CC Road								
		1	20.00	5.00	0.10	10.00			
						10.00	6332.04	Cum	63321.00
8	**KSRB 5.3-1:**Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-235. Item No. 5.3)								

	Basic rate		3200.00						
	Add A.W. 8%		256.00						
	Total		3456.00						
	culvert	2	5.00	0.45	0.60	2.70			
						2.70	3456.00	Cum	9332.00
)	**KSRB 5.3-1:**Providing ruled pointing of course stone msonry with cement mortar 1:3 20 mm deep, after raking joints to depth of 20 mm nicley lining, including cost of materials, labour, curing etc., complete as per specifications and directions of the engineer-in-charge. (P-112, Item No. 15.8)								
	Basic rate		**33.00**						
	Add A.W. 8%		2.64						
	Total		**35.64**						
		2	35		0.60	42.00			
						42.00	35.64	Sqm	1497.00
0	Providing and fixing 10cms thick pre cast **RCC covering slab** using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications **(Data Rate Approved)**								
	Data Rate		**1836.00**						
	CC Drain	1	35	0.6		21.00			
					Total	**21.00**	1836.00	Sqm	38556.00
1	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)								
	Basic rate	=	5111.00						
	Add A.W. 8%	=	0.00						
	Total	=	5111.00						
	Culvert slabs	7	1.80	0.60		7.56			
					Total:-	**7.56**	5111.00	Cum	38640.00
2	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
	Qty vide item no.1					340.10	94.82	Cum	32248.00
	Basic rate	=	62.20						
	Conveying charges for 10Kms								

Rs. 2.00 Tonne Km.								
Average Weight of earth 1.28 Tonne/Km.								
For 10 Km								
Rs.2.00X1.28TonneX10Km	=	25.60						
Total	=	87.80						
Add Area Weightage 8%	=	7.02						
		94.82						
Sub total								1482787.25
Add 1% third party inspection charges								14827.87
Miscellaneous and rounding off								2384.88
						Total:-		**1500000.00**

Certificate:-

1)This is certified that the work spot comes under BBMP limits only.

2)The rates are as per CSR of 2015-16 year of PWD Bangalore Circle.

3)The Provisions made in estimate are adequate and necessary.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.
15/12

Administrative Approval
Accorded For 15-00 lakhs.
Head of A/C P-1771
CER NO : 66 Dt:. 28/12/16

TA CE (YNK)

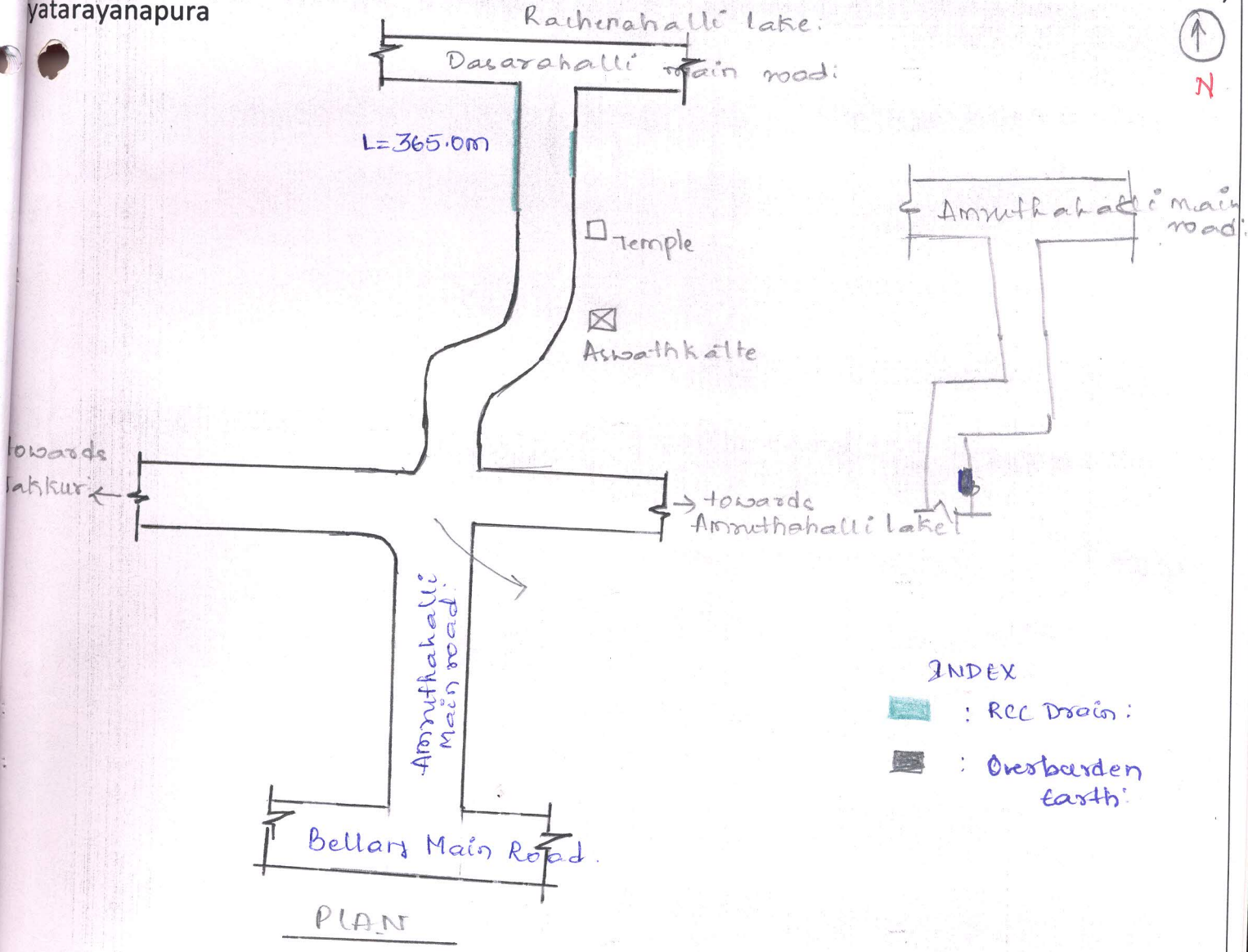
Technical Sanction
Accorded For .....
Head of A/C.....
CER NO :..... Dt:..

TA CE (YNK)

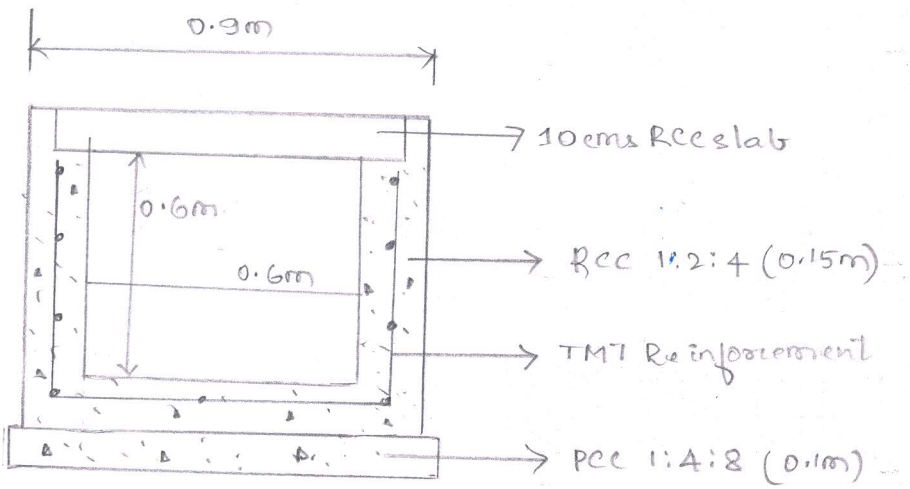
TECHNICAL SANCTION
Accorded For Rs. 15-00L (Fifteen lakhs only)
Head of A/C P-1771
Div. Ref. No 85/16-17 Date 28/12/16...

AE
EE(BZ-I) 28/12

ame of work: Improvements to roads and drains in Padma tent area in ward no.07, yatarayanapura



PLAN



CROSS-SECTION

M.N.D
AE(W7)

Assistant Executive Engineer
Kodigehalli Sub Division
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[illegible] - 560 092